

**ABSTRACT OF THE DISCLOSURE**

A method and system for chromatogram analysis is disclosed. An aspect of the invention is a method for reducing each chromatogram to a data set that can be compared to another such data set, producing a comparison result that indicates the similarity or dissimilarity of the two chromatograms. The present invention provides a system and method that can be used to identify DNA sequence variations through chromatogram analysis. The present invention also provides a user interface to display results of chromatogram analysis, which quickly and efficiently illustrates which samples are dissimilar or similar to reference chromatograms.

5